

From arc5 at ix.netcom.com Thu Oct 3 10:50:52 2019  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Thu, 3 Oct 2019 09:50:52 -0500  
Subject: [BoatAnchors] Not Really OT: IFR-1500 Service Manual  
Message-ID: <53668040-8bef-544d-61aa-fee253099620@ix.netcom.com>

IFR-1500 Service Monitor with a bad power supply; need to fix it, but no info available.

Google .PDF Service Manuals online are missing the chapter (5) for the power supply.

Anyone have access to that information?? Just a schematic will help.  
Thanks!

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<https://www.avast.com/antivirus>

From w4byg at att.net Wed Oct 9 10:52:43 2019  
From: w4byg at att.net (Ray LaRue)  
Date: Wed, 9 Oct 2019 10:52:43 -0400  
Subject: [BoatAnchors] Requesting help for information  
Message-ID: <819e6c1d-952b-9615-b6c3-653ea5dccd15@att.net>

I have acquired a NOS unbuilt Dycom model ES "Super brick" 2 meter, booster amplifier kit.? It has all the parts included, but no assembly instructions, or even a schematic.? It utilizes a pair of 2N6084 power transistors.

Dycom was the product name for Dynamic Communications, Inc., Riviera Beach, FL

Is there any old timers out there that might have at least a schematic diagram on this amplifier that would help me to assemble it?

Any assistance would be appreciated.  
Ray, W4BYG

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Socialism ia a philosphy of failure, the creed of ignorance and the gospel of envy.

It's inherent virtue is the equal sharing of misery... Winston Churchill

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<https://www.avg.com>

From arc5 at ix.netcom.com Sat Oct 12 18:05:27 2019  
From: arc5 at ix.netcom.com (arc5 at ix.netcom.com)  
Date: Sat, 12 Oct 2019 17:05:27 -0500  
Subject: [BoatAnchors] Update: BC-669 Project for Veteran, Parts Request.  
Message-ID: <3otnosr0u7bimvnhbdcnmhs7.1570917911545@email.lge.com>

I don't know why this has been reposted. I didn't.----- Original message-----  
From: David Stinson via BoatAnchorsDate: Sat, Oct 12, 2019 3:37 PMTo: milsurplus  
at mailman;ARC-5;Cc: David Stinson;Subject:[BoatAnchors] Update: BC-669 Project  
for Veteran, Parts Request.Thank you all so much for your efforts, digging into  
those old boxes.

One of our kind members donated the glass 6L6s and another sent-  
along a green pilot-lamp jewel to replace the improper white one.

Still need:

Two 807

One 6SA7

Frequency Chart Holder

Crystals for:

3880, 3885, 3890, 3495, 3500, 3505, 4265, 4270, 4275

(The BC-669 has a 385KC IF.? Someone get a medium to  
raise the shade of the person who decided that so I can  
throw garlic at him).

I'll be etching some crystals, but it's a tedious job and even  
one off the "etch" list is a big help.? Last resort is  
programmable oscillators, which I've done before and it works,  
but a rock is better if possible.

Still need some suggestions for one or two 160 Meter AM freqs  
that will apply to Texas.? Is no one on 160 AM anymore?  
I once thought 1885 was the "calling freq" for AM, but I haven't  
heard anyone there in quite a while.? Maybe my timing is bad?

Our Tug-Boat captain is excited that the project is progressing.  
It will be cool to hear him on the local AM nets with it.

This one ain't easy:?. Many grounds had gone Hi-Z.

Someone replaced the power connector with one from  
an SCR-522.? The original connector is no easier to find now  
than it was then, so I just "went with it."

Every paper cap in it, and there must be  
two dozen, is bad.? Most of the resistors are over 20% out.  
Half of the receiver tubes are bad, including the "gassy-est"  
6K6 I've ever seen.? That one was an excellent example of why  
one should not get lazy and skip the GAS test on the TV-7.  
Transconductance looked peachy.? GAS test darn near pinned  
the meter.? Oof!

What is it about the BC-669 that some of us find so attractive?  
Maybe it's because it looks like something John Paul Jones might  
have used to accept the surrender of /Serapis/ ?

TNX OM ES 73 DE Dave AB5S

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BoatAnchors mailing list  
BoatAnchors at [lists.theporch.com](mailto:lists.theporch.com)  
<https://lists.theporch.com/mailman/listinfo/boatanchors>

From arc5 at ix.netcom.com Sun Oct 13 10:23:07 2019  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Sun, 13 Oct 2019 09:23:07 -0500  
Subject: [BoatAnchors] BC-669 Project XTALs  
In-Reply-To: <402546231.1556996.1570929863155@mail.yahoo.com>  
References: <402546231.1556996.1570929863155.ref@mail.yahoo.com>  
<402546231.1556996.1570929863155@mail.yahoo.com>  
Message-ID: <73071139-2371-1fe0-0a3c-82a3fecaf2a5@ix.netcom.com>

On 10/12/2019 8:24 PM, hwhall at compuserve.com wrote:

> Hi,  
>  
> How's the crystals for the project coming? I have an FT-243 on 3885KC  
> (originally BC-611 TX xtal) and found some HC-6 size ones: a few for  
> 3495KC and one 1500KC. ?IIRC, those were freqs you were looking for.  
>  
> Wayne  
> WB4OGM

Morning, Wayne!

Nearing completion.? Got all six receiver crystals etched and  
installed.? Still lack the 1885 and 1985 KC Transmit crystals.? The ones  
I had close enough to etch turned-out to be fractured.? I may have to  
get it to him without 160 meters for now.? Four TX channels are 3665,  
3880, 3885 and 3890, which should give him plenty of traffic here in  
Texas in the mornings and evenings.? I have found there is enough  
"width" in the receiver front-end that one can listen to favourite BCB  
stations; just install the appropriate "subtract 385" crystal or  
oscillator.? For instance- one of my favorite "oldies" locals is on 1400  
KC, so I pipe-in 1785 KC, tune the dial all the way down below 1700 and  
it sounds excellent.? Still fighting an intermittent problem in the PA  
output tuning, but I hope to have that whipped today. ? My scope is

saying unmodulated carrier into a 50-Ohm load is 180V PTP, but I don't believe that.? I have put a DC supply on the scope and confirmed that 180 VDC moves the trace to 180V on the graticule.? 180V PTP is? 63 V RMS, which would equate to almost 80W out.? I don't believe that for a minute, especially since with 450V B+ at 200mils, input is 90W (my watt meter calibration is hosed so using the scope).?? Wondering how this is happening.? Is it possible some RF is coupling into the scope's Vertical amp and adding to the "real" figure?? I'm using a 1970s Tektronix x10 probe properly grounded and the scope is connected to my extensive station ground and AC line ground.? So why the exaggerated? reading?

In any event- using a Motorola TMN6054 mobile mike and with a change of two resistors (already-modded when I got it so "fair game") in the Mic Amp, 100% clean modulation with excellent reports.? The two resistors are a voltage divider from the output of the microphone transformer to the grid of the 12J5 Mic Amp.? 100k from transformer secondary to grid, 50K from grid to ground.? This impresses only 1/3rd of the available audio voltage on the 12J5 grid, so I flipped those two over- 50K secondary to grid, 100K to ground, effectively doubling the drive and reports indicate this was an improvement.

Heading out to "the Cave" to finish-up.? Need to "clear the decks" for a final "check out" of the RAK and RAL receivers before shipping them off the the U.S.S. Wisconsin for installation in their period-correct Radio compartment.? Not sure how much the shipping is going to be, but their club is going to help with it.? I'll come begging if I need a little extra, LOL.

TNX OM ES GL DE Dave AB5S

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<https://www.avast.com/antivirus>

From arc5 at ix.netcom.com Mon Oct 14 13:06:39 2019  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Mon, 14 Oct 2019 12:06:39 -0500  
Subject: [BoatAnchors] Blueprints: WWII Ship Antennas and Gear  
Message-ID: <b5f6828f-785a-8028-eaeb-5a695261276e@ix.netcom.com>

These U.S. Navy blueprints from 1944 and 1945, which show ship antennas and name the gear for which they were intended, should birth some interesting discussions:

LSM Fire Support Ship Antennas 1945:  
<https://photos.app.goo.gl/4d38eS5d1FuPh5fz9>

Haskell-class Attack Transport 1945:  
<https://photos.app.goo.gl/QorEwFYp3mXnqWgu7>

Cleveland-class Light Cruiser Antennas 1944:  
<https://photos.app.goo.gl/aagQAhGTVd1VB5Q18>

This one is really interesting:

Adirondack-class Amphibious Landing Headquarters Ship and Communicaton Hub.  
This drawing is just the receiver antenna feedline plans, so I didn't  
take close detail

photos.? There are about 80 receivers on this ship, most of them Superhets.  
I have an idea that the "quieted" local oscillators in Navy ships had  
less to do

with submarines and more with preventing LO interference to the other  
receivers:

<https://photos.app.goo.gl/AiSMUKWrDyHRxSV26>

<https://photos.app.goo.gl/gJ7EovKdhL6AQKEE9>

Opinions:

Should I send these (and other) blueprints to the WWII Museum in New  
Orleans,  
or to the U.S.S. Wisconsin folks, or elsewhere?

TNX OM DE Dave AB5S

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From arc5 at ix.netcom.com Tue Oct 15 08:12:26 2019  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Tue, 15 Oct 2019 07:12:26 -0500  
Subject: [BoatAnchors] BC-669 Project Complete - Happy Skipper  
Message-ID: <6ee88f69-a647-1626-4fba-9d3c45c03d42@ix.netcom.com>

Note:? Need to clear-up my misunderstanding.? Myron was not Navy  
himself- he skippered tugs in support of Navy operations for 30 years,  
serving many ships you would recognize. He has some cool photos. The  
term "vet" was my misunderstanding, not his claim. Now, with that said,  
I still count his as honourable service worthy of recognition and many  
people agree.?? It takes everyone's shoulder-to-the-wheel to make the  
(battle)wagons go.

The project to provide a BC-669 to a retired tugboat skipper who used them on many tugs is complete.? W6TUG used BC-669 on most of the tugs he served.? When he was a boy, his father had one on his fishing boat.? He has great memories and always wanted one since he was a kid.? Myron is delighted to have the rig and would like to send his many thanks to everyone who contributed parts and suggestions to the project.? Looking forward to hearing him on 3665, 3880, 3885 and 3890.? Still need transmit crystals for 1885 and 1985- they will surface sooner or later. You done good, fellas.? Give yourselves a gold star. :-)

Cleared the bench, ready for final check-out of Anthony Quinn's kind gift of RAL/RAK rigs before they ship-out to the U.S.S. Wisconsin.? Then we'll tackle the G0-9.

TNX OM ES 73 DE Dave AB5S

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From rbsingl at ilstu.edu Tue Oct 15 08:19:34 2019  
From: rbsingl at ilstu.edu (Singley, Rodger)  
Date: Tue, 15 Oct 2019 12:19:34 +0000  
Subject: [BoatAnchors] BC-669 Project Complete - Happy Skipper  
In-Reply-To: <6ee88f69-a647-1626-4fba-9d3c45c03d42@ix.netcom.com>  
References: <6ee88f69-a647-1626-4fba-9d3c45c03d42@ix.netcom.com>  
Message-ID:  
<CY4PR03MB3189622D5E627E67BFD21D32B8930@CY4PR03MB3189.namprd03.prod.outlook.com>

VERY well done, Dave! It has been very enjoyable reading about this wonderful and quite generous gift of your time and talent!

73, Rodger WQ9E

-----Original Message-----

From: BoatAnchors <boatanchors-bounces at lists.theporch.com> On Behalf Of David Stinson via BoatAnchors  
Sent: Tuesday, October 15, 2019 7:12 AM  
To: Boatanchors at mailman <boatanchors at mailman.qth.net>; ARC-5 <arc5 at mailman.qth.net>  
Cc: David Stinson <arc5 at ix.netcom.com>  
Subject: [BoatAnchors] BC-669 Project Complete - Happy Skipper

From w5sum at comcast.net Tue Oct 15 09:35:50 2019  
From: w5sum at comcast.net (Ronnie Hull)  
Date: Tue, 15 Oct 2019 08:35:50 -0500  
Subject: [BoatAnchors] BC-669 Project Complete - Happy Skipper  
In-Reply-To: <6ee88f69-a647-1626-4fba-9d3c45c03d42@ix.netcom.com>  
References: <6ee88f69-a647-1626-4fba-9d3c45c03d42@ix.netcom.com>  
Message-ID: <91C0CB8B-DC78-46C6-96B4-E092135E6D65@comcast.net>

Well done Brave Dave!

Sent from my iPhone

> On Oct 15, 2019, at 7:15 AM, David Stinson via BoatAnchors <boatanchors at lists.theporch.com> wrote:

>

> ?Note: Need to clear-up my misunderstanding. Myron was not Navy himself- he skippered tugs in support of Navy operations for 30 years, serving many ships you would recognize. He has some cool photos. The term "vet" was my misunderstanding, not his claim. Now, with that said, I still count his as honourable service worthy of recognition and many people agree. It takes everyone's shoulder-to-the-wheel to make the (battle)wagons go.

>

> The project to provide a BC-669 to a retired tugboat skipper who used them on many tugs is complete. W6TUG used BC-669 on most of the tugs he served. When he was a boy, his father had one on his fishing boat. He has great memories and always wanted one since he was a kid. Myron is delighted to have the rig and would like to send his many thanks to everyone who contributed parts and suggestions to the project. Looking forward to hearing him on 3665, 3880, 3885 and 3890. Still need transmit crystals for 1885 and 1985- they will surface sooner or later.

> You done good, fellas. Give yourselves a gold star. :-)

>

> Cleared the bench, ready for final check-out of Anthony Quinn's kind gift of RAL/RAK rigs

> before they ship-out to the U.S.S. Wisconsin. Then we'll tackle the GO-9.

>

> TNX OM ES 73 DE Dave AB5S

>

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> -----  
> BoatAnchors mailing list

> BoatAnchors at lists.theporch.com

> <https://lists.theporch.com/mailman/listinfo/boatanchors>

From wa5cab at cs.com Wed Oct 16 01:33:13 2019  
From: wa5cab at cs.com (Robert Downs)  
Date: Wed, 16 Oct 2019 00:33:13 -0500  
Subject: [BoatAnchors] Source for repair of TEK 2335  
Message-ID: <010c01d583e3\$34f71300\$9ee53900\$@com>

Does anyone know of anyone still doing repairs to TEK 2335 oscilloscopes? I accidentally left mine on for an unknown length of time (but possibly as much as 2 weeks) and now it has no trace. I don't have the time to fix it myself but need one working. Actually, I have two with the same symptom but the first one was never left on for more than a day.

Robert Downs

From 4cx250b at miamioh.edu Wed Oct 16 09:16:06 2019  
From: 4cx250b at miamioh.edu (MU 4CX250B)  
Date: Wed, 16 Oct 2019 06:16:06 -0700  
Subject: [BoatAnchors] Source for repair of TEK 2335  
In-Reply-To: <010c01d583e3\$34f71300\$9ee53900\$@com>  
References: <010c01d583e3\$34f71300\$9ee53900\$@com>  
Message-ID: <CACJYdGiBnTzGj9EWh\_RAK6khAHDtk-tGkjVZbflYDfa8gEi8Bg@mail.gmail.com>

Hi Robert, As I recall, the Tek 2335 is a 100MHz portable scope from about 1980. If it has been refurbished with new caps, is in excellent cosmetic condition, and has been maintained over the decades, it might be worth repairing. Unfortunately, it's value today is only about \$100, so unless the blank display is caused by something obvious (eg, lack of HV) , and you don't have time to fix it yourself, then it's likely to cost significantly more to repair than the scope is worth. It may be time to lay your old friend to rest and pick up a newer scope.

My analog scopes have always been Tekes. In my opinion the best analog scope ever made is the wonderful 400MHz Tek 2465B and its variants. The 2445B is its 150MHz little brother (otherwise identical to the 2465B). Good working ones can be picked up for about \$200.

73,  
Jim w8zr

Sent from my iPhone



> On Oct 15, 2019, at 11:33 PM, Robert Downs via BoatAnchors <boatanchors at lists.theporch.com> wrote:  
>  
> Does anyone know of anyone still doing repairs to TEK 2335 oscilloscopes? I  
> accidentally left mine on for an unknown length of time (but possibly as  
> much as 2 weeks) and now it has no trace. I don't have the time to fix it  
> myself but need one working. Actually, I have two with the same symptom but  
> the first one was never left on for more than a day.  
>  
>  
>  
> Robert Downs  
>  
>  
>  
> -----  
> BoatAnchors mailing list  
> BoatAnchors at lists.theporch.com  
> <https://lists.theporch.com/mailman/listinfo/boatanchors>

From zarco at sonic.net Wed Oct 16 09:58:38 2019  
From: zarco at sonic.net (Steve)  
Date: Wed, 16 Oct 2019 06:58:38 -0700  
Subject: [BoatAnchors] Introduction and HT-9 coils needed  
Message-ID: <001001d58429\$d0dd7e80\$03d61bc6@starwars>

I'm new to this group but have been a ham and BA user/restorer/collector for at least 50 years now. I've also been an R&D engineer (EE) for 40 years mostly at the old Hewlett-Packard working on microwave instruments. May be able to help folks that have and/or are repairing some of these. Having been retired for a few years now having an absolute blast getting back into vintage electronics of all kinds. Most recently focusing on things I'd always dreamed of having as a kid. Current and upcoming projects include a Raytheon RA-250 AM BC transmitter from the 1940's, ART-13, GRC-106, SX-28 and a Halli HT-9. All acquired recently.

Hoping to become an active participant in the BA List community. Already know quite a few of you but looking forward to meeting others.

Concerning the Halli HT-9, it only came with the 80m PA coil. All others (osc and buffer/mult as well as the other PA coils) were missing. If anyone has any spares laying around would like to hear from you. For those that might have the osc/mult coils in their junk box but not familiar with them they are in a rectangular metal case like an old IF with pre-octal plug and a tuning knob on top. Thanks!  
Steve Pazar W6SSP  
Santa Rosa, CA

From gumbear at pacbell.net Wed Oct 16 13:20:26 2019  
From: gumbear at pacbell.net (Arden Allen)  
Date: Wed, 16 Oct 2019 10:20:26 -0700  
Subject: [BoatAnchors] Source for repair of TEK 2335  
In-Reply-To: <CACJYdGiBnTzGj9EWh\_RAK6khAHdTK-tGkjVZbfLYDfa8gEi8Bg@mail.gmail.com>  
References: <010c01d583e3\$34f71300\$9ee53900\$@com>  
<CACJYdGiBnTzGj9EWh\_RAK6khAHdTK-tGkjVZbfLYDfa8gEi8Bg@mail.gmail.com>  
Message-ID: <0084444E10EA4784A971FCDD9CE2205A@Lenovo>

> .....It may be time to lay your old friend to rest and pick up a  
> newer scope.

My two bits: I had good success in trolling the 'Bay for "parts or repair" scopes and making simple repairs. Some have ended up as garage queens so it's not a for-sure thing. But learning the ins-n-outs of a particular model makes for quick repairs later on. Bad HV transformers is the main bugaboo.

Arden Allen  
KB6NAX

From anchor at ec.rr.com Thu Oct 17 16:45:08 2019  
From: anchor at ec.rr.com (Al Parker)  
Date: Thu, 17 Oct 2019 16:45:08 -0400  
Subject: [BoatAnchors] CE 20A for sale  
Message-ID: <22ed7ff9-47af-c198-6c06-627884851b70@ec.rr.com>

I've had this unit for over 15 yrs, used to use it regularly on the Vintage SB Net (with amp), but haven't for probably 10+ yrs now. Last time I tried, a cupl yrs ago, I got abt 8-10 watts out, but no modulation. Might be the nut that holds the knobs ;-(

It incl. an HB VFO made from a Lampkin Freq. mtr, which covers 15-160m and is very stable, and the accessory CE VOX unit. Will also incl. a coax relay, and 20A manual & docs on the VFO. (I never used the VOX.)

\$150 plus shipping from 28560, it'll be heavy in 2 boxes. Can deliver to the Benson, NC hamfest on Sun., Nov. 17. Subtract \$25 if you don't want the coax relay.

I have pix to email for anyone that would like to see.  
tnx, 73,

Al, W8UT  
New Bern, NC  
[www.boatanchors.org](http://www.boatanchors.org)  
[www.hammarlund.info](http://www.hammarlund.info)

"There is nothing -- absolutely nothing -- half so much worth doing as simply messing about in boats"

Ratty, to Mole

From wwatson5 at sbcglobal.net Thu Oct 17 21:09:08 2019  
From: wwatson5 at sbcglobal.net (William Watson)  
Date: Thu, 17 Oct 2019 20:09:08 -0500  
Subject: [BoatAnchors] Breting Radios  
Message-ID: <mailman.37.1571360952.18280.boatanchors@lists.theporch.com>

Some may have seen my earlier pleas re my 3 (yep, 3) Breting 14 (or 14X) receivers.

One of these has a pretty nice mirror (front panel), the other 2 are minus the mirror. I think there is enough stuff in them to make 2 + complete Model 14 (or 14X) radios.

I was trying to get a little bit of money out of that lot but, alas, no takers. If someone will come after the lot, I will GIVE it to you. I just don't have enough time and energy left to tackle that stack of boatanchors, and I just hate to toss chrome plated chassis, transformers, etc. I am located in Edmond, OK, on north side of OKC.

I just located, in my stuff, another Breting a Model 44. Have not been able to find any data on it. I might like to take a crack of restoring that one, if someone could point me to some data, or you might talk me out of it.

Looking forward to hearing from someone.

Joe Watson  
W5WBR

Sent from Mail for Windows 10

From wlfuqu00 at uky.edu Fri Oct 18 00:05:42 2019  
From: wlfuqu00 at uky.edu (Fuqua, William)  
Date: Fri, 18 Oct 2019 04:05:42 +0000  
Subject: [BoatAnchors] Dunduplex key  
In-Reply-To: <mailman.37.1571360952.18280.boatanchors@lists.theporch.com>  
References: <mailman.37.1571360952.18280.boatanchors@lists.theporch.com>  
Message-ID: <DM5PR03MB2908051BC9552AB849072BC3CB6C0@DM5PR03MB2908.namprd03.prod.outlook.com>

What can you guys tell me about a Dunduplex key sold by vibroplex serial No. 5088?

73  
Bill wa4lav

From wlfuqu00 at uky.edu Fri Oct 18 03:51:06 2019

From: wlfuqu00 at uky.edu (Fuqua, William)  
Date: Fri, 18 Oct 2019 07:51:06 +0000  
Subject: [BoatAnchors] Dunduplex key  
In-Reply-To:  
<DM5PR03MB2908051BC9552AB849072BC3CB6C0@DM5PR03MB2908.namprd03.prod.outlook.com>  
References: <mailman.37.1571360952.18280.boatanchors@lists.theporch.com>,  
<DM5PR03MB2908051BC9552AB849072BC3CB6C0@DM5PR03MB2908.namprd03.prod.outlook.com>  
Message-ID:  
<DM5PR03MB290881C5DD845D5D58574ED0CB6C0@DM5PR03MB2908.namprd03.prod.outlook.com>

Does anyone have info on an RME MB-3 boomerang monitor?  
It comes with a amplified speaker.  
73

Bill wa4lav

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BoatAnchors mailing list  
BoatAnchors at lists.theporch.com  
<https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cwlfuqu00%40uky.edu%7C39a4589cab2b4d494aad08d753807570%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C637069683509308708&sdata=tVsX6KQQt%2FcxfyusYJm5AbgBthp644Ar0x6iIHvMB%2B4%3D&reserved=0>

From wlfuqu00 at uky.edu Fri Oct 18 03:52:00 2019  
From: wlfuqu00 at uky.edu (Fuqua, William)  
Date: Fri, 18 Oct 2019 07:52:00 +0000  
Subject: [BoatAnchors] RME MB-3  
In-Reply-To:  
<DM5PR03MB2908051BC9552AB849072BC3CB6C0@DM5PR03MB2908.namprd03.prod.outlook.com>  
References: <mailman.37.1571360952.18280.boatanchors@lists.theporch.com>,  
<DM5PR03MB2908051BC9552AB849072BC3CB6C0@DM5PR03MB2908.namprd03.prod.outlook.com>  
Message-ID:  
<DM5PR03MB2908C2BBE6C3A633DC8B7849CB6C0@DM5PR03MB2908.namprd03.prod.outlook.com>

Sorry, I did not change subject.

---

From: BoatAnchors <boatanchors-bounces at lists.theporch.com> on behalf of Fuqua, William <wlfuqu00 at uky.edu>  
Sent: Friday, October 18, 2019 12:05 AM  
To: boatanchors at lists.theporch.com <boatanchors at lists.theporch.com>  
Subject: [BoatAnchors] Dunduplex key

What can you guys tell me about a Dunduplex key sold by vibroplex serial No. 5088?

73  
Bill wa4lav

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BoatAnchors mailing list

BoatAnchors at lists.theporch.com

<https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cw1fuqu00%40uky.edu%7C39a4589cab2b4d494aad08d753807570%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C637069683509308708&sdata=tVsX6KQQt%2FcxfyusYJm5AbgBthp644Ar0x6iIHvMB%2B4%3D&reserved=0>

url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cw1fuqu00%40uky.edu%7C39a4589cab2b4d494aad08d753807570%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C637069683509308708&sdata=tVsX6KQQt%2FcxfyusYJm5AbgBthp644Ar0x6iIHvMB%2B4%3D&reserved=0

From ajamas.rn at gmail.com Tue Oct 22 17:14:54 2019

From: ajamas.rn at gmail.com (Bob D.)

Date: Tue, 22 Oct 2019 17:14:54 -0400

Subject: [BoatAnchors] Published article for 6C8, 2 x 25L6, 25Z5,  
and L4B ballast audio amplifier

Message-ID: <CA+kZa5p7Jf39wss-xEL00xUUe5k-6uPi-V8jzM1hB4C6ECR6Bg@mail.gmail.com>

Aloha gentlemen,

Do any of y'all recall a published project, and can offer a reference, for a line(no power transformer) operated audio amplifier with the following lineup: 6C8, 2 x 25L6, 25Z5, and L4B? Somehow I've ended up with two, obviously home brew, examples that are similar enough to suggest the parts were procured and assembled according to recipe.

73, -Bob ah7i

--

-do not look into LASER with remaining eye!

From infomet at embarqmail.com Wed Oct 23 13:32:53 2019

From: infomet at embarqmail.com (Wilson Lamb)

Date: Wed, 23 Oct 2019 13:32:53 -0400 (EDT)

Subject: [BoatAnchors] BoatAnchors Digest, Vol 418, Issue 1

In-Reply-To: <mailman.10.1571846401.18173.boatanchors@lists.theporch.com>

References: <mailman.10.1571846401.18173.boatanchors@lists.theporch.com>

Message-ID: <11452528.1492033.1571851973451.JavaMail.zimbra@embarqmail.com>

I only get 906 bytes...would like to see article, if possible.

WL

----- boatanchors-request at lists.theporch.com wrote:

> Send BoatAnchors mailing list submissions to

> boatanchors at lists.theporch.com

>

> To subscribe or unsubscribe via the World Wide Web, visit

> <https://lists.theporch.com/mailman/listinfo/boatanchors>

> or, via email, send a message with subject or body 'help' to

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> boatanchors-owner at lists.theporch.com

>

> When replying, please edit your Subject line so it is more specific  
> than "Re: Contents of BoatAnchors digest..."

From arc5 at ix.netcom.com Sun Oct 27 13:18:18 2019  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Sun, 27 Oct 2019 12:18:18 -0500  
Subject: [BoatAnchors] G0-9 Project; "Which way did he go, George?"  
Message-ID: <17254878-0843-3331-8348-7c26beffa44a@ix.netcom.com>

Got the decks cleared of the BC-669 and the RAK/RAL projects, so it's time to start the "Winter Hair-Puller," the G0-9 transmitter.? As we saw before, the power supply is almost completely stripped and an 813 shoe-horned in where an 803 should be nesting.? The power supply and transmitter display the sad and regrettable fate that awaited 90% of "conversions:": a lot of wire-cutting? and gutting which was not finished- the poor thing never having done another "dit" from the time it left Service until now, whereupon the "convert-er," converted a beautiful piece of engineering into a corpse on the junk pile.?? It's not all bad news; the transmitter came with the shock mounts, which is great because without them, there are things on the bottom of the transmitter that would be easy to break (not every engineering decision is a good one).? A stripped 800Hz power supply is a perfect excuse to build a 60Hz supply, so we don't have the 800Hz boogie-man to whip.?? Here is a simplified schematic of the transmitter for those who wish to follow the discussion:

<https://photos.app.goo.gl/Z3sLRrEWgFRpUtVaA>

We'll start by surveying and trying to understand the changes made to the rig, so "Which way did he go, George?"? starting with the almost-a-power-supply.? It's nearly stripped and a start made on a filament supply deck.? A large transformer supplied 10VCT for the 813.? Two small ones were each 7.5VAC, wired in series to provide 15VCT, intended for the 837 M0 and 837 IA.? A bunch of big mystery resistors here and yonder.? I decided to "begin at the beginning" and removed almost all the original and "conversion" parts, leaving us a nearly-clear cabinet in which to build our supplies, controls and modulator.?? As it turns-out, our "converter" did put some thought into the changes he made to the transmitter itself, if one assumes he did not have access to an 803.? The 813 is wired in such a way as it would work.? The 813 socket is larger than the intended 803 socket, so the socket mounts had to be warped a bit to fit it.? He did power the transmitter up at some time, because the 813 is shorter than the 803, the plate lead touched a ground point and arced to ground at that point.? Insulating varnish on the wire and the ground point (just in case) addressed this. The original .01 uFd screen bypass capacitor is missing and a large mica 600 pFd capacitor mounted to a small drill

hole.? No idea why on that one.??? Reference the grid circuits of the three tubes. Through pin 17 of the connection between the Transmitter and Power Supply chassis, relay K201 closes the M0/IA grid circuits to ground during keying.? The original modifier lifted the grid circuit of the PA from ground at the bottom of meter M302 and connected this point to pin 17.? This allows the use of grid-block keying for the transmitter.? I may retain this, since the thought of the PA producing waste heat and running the filament-life clock, being unbiased during key-up, is unacceptable to me.

#### The "Filament Resistor" Question.

As you remember, we discussed reasons why a 4.5-Ohm dropping resistor was in the filament lead to the Intermediate Amp.? After some investigation and insights from our membership, the answer is the IR drop in the two .5 mH chokes in the filament leads of the M0.

<https://photos.app.goo.gl/5dEd6kpZZ9Bg8wA19>

R-312 is included to equalize the two IR drops, which is then made-up by supplying about a higher voltage to the M0/IA filament buss.? To get 12.6 V to the tube filaments at 60 Hz, one must supply about 15.5 VCT to the buss.? While 15 VCT transformers can be found surplus, one of my goals in doing this work is the hope that others will get their rigs off the garage floor where it's sat for 40 years and breath life back into it.? Really didn't like the idea of using a non-standard transformer.? There are a lot of 12VCT, 3 Amp transformers out there.? Radio Shack used to sell them by the basket and you see them at hamfest for a couple of bucks all the time.? So began looking for another solution.? Here is a photo of the M0 stage.? The two filament chokes, wound basket-weave on a wooden core, are easy to see on the right:

<https://photos.app.goo.gl/gRbTQGYbwVE7zHqT6>

Modern ferrite-wound chokes can deliver significant inductance without large IR losses, so I decided a non-destructive solution was to bypass these two chokes with ferrite-loaded coils and bypass R-312, allowing standard 12.6VCT supply to the M0/IA filament buss.? R312 is the center of the three clip-mounted resistors:

<https://photos.app.goo.gl/YQsntABB46pMorJRA>

<https://photos.app.goo.gl/GsoKN6iTZ9pqhBVQ6>

<https://photos.app.goo.gl/b7ncNWYhQhtt669XA>

Replacing the 813 with the correct 803 hit a small snag; the 803 socket I had was the same size as the 813 socket- too big.? Luck was with me, because I'd acquired a fried-transformers GP-7 transmitter at HamComm many years ago to keep as a parts donor. It had the correct, smaller 803 socket, but there was yet another catch.? There had been arcing around the socket ( high power at altitude? ) and there were nasty carbon tracks between the filament tubes and from filament to the screen pin.? Cleaning didn't touch them.? Used plumber's emory cloth to remove the tracks completely, then covered the areas with a good coating of High Voltage Insulating varnish:

<https://photos.app.goo.gl/niUjad3wVDQAGaLQ7>

The 803 was originally mounted with rubber grommets at each of the mounting screws.? The old ones were long gone and the ones from the GP-7 parter were crumbling and unusable.? Did some searches and asked a local car mechanic if hi-temperature grommets were available.? Nothing I found was satisfactory.? Decided to go with silicone faucet washers (that might come back to haunt me, HI). They were slightly too large, preventing the tube from seating the last 16th of an inch or so, but that doesn't seem to have been a problem.? In fact, it might be a positive as this will allow air flow under the tube.

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The original screen bypass cap was missing and a "taced-in" 600 pFd replacement installed.? I removed this cap and installed a .01, 1000V ceramic disc.

<https://photos.app.goo.gl/fT61C5rcthXsDjm3A>

After the filament circuit changes and replacing the 803, I decided to run a first test at low voltages.?? Supplied 420 VDC to all High Voltage busses.? The rig took right off and produced 15 W out with clean grid-block keying.? We'll call this "prototyping" because "haywiring" (a.k.a. "the truth") sounds so... yeah. That:

<https://photos.app.goo.gl/TTm68nZ2YEApKvr96>

Still much to do.? BIG power supply build ahead.? Fitting the transformer deck:

<https://photos.app.goo.gl/f4sfAcDb5eciFZjB9>

The big black transformer is 1200VCT, which with a bridge rectifier should deliver about 1700 VDC to the 803.? The "Economy" center tap is too "hot" for the Low B+ to MA/IA at 800+V, but I have a series? cap to tone it down a bit, followed by a MOSFET regulator to fix this buss at 525V.? We'll see how it goes.

TNX OM ES 73 DE Dave AB5S

--

This email has been checked for viruses by Avast antivirus software.

<https://www.avast.com/antivirus>

From tarheel6 at msn.com Tue Oct 29 13:27:59 2019

From: tarheel6 at msn.com (Tom Bridgers)

Date: Tue, 29 Oct 2019 17:27:59 +0000

Subject: [BoatAnchors] G0-9 Progress Report

Message-ID:

<BY5PR19MB361705C4C37E674AEBD2540490610@BY5PR19MB3617.namprd19.prod.outlook.com>

Congratulations, Dave!



You've given us a wonderful and informative story of how you diagnosed and repaired the G0-9 to the point where it could be put on the air using a low-voltage supply.

Not only that, but you were able to get 15 watts of clean signal output power. And you keyed it with gridblock keing, which has to be a substantial improvement within itself.

Maybe I'm just weird, but your posting reads like a Sherlock Holmes story to me. I can't wait to read the next sentence, the next paragraph and look at the next photo to see what happens...

Lots of pleasure and excitement reading how you are able to take a very complex transmitter, that's been hacked up by its former owner, and you're able to restore it and make it work.

Wow!

Your confidence and adventurousness are inspirational.

Truly you are a master electronics restorer! Well done!

73,  
Tom KE4RHH

Sent from my iPhone

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> boatanchors at lists.theporch.com

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> Today's Topics:

>

> 1. G0-9 Project; "Which way did he go, George?" (David Stinson)

>

>  
> -----  
>  
> Message: 1  
> Date: Sun, 27 Oct 2019 12:18:18 -0500  
> From: David Stinson <arc5 at ix.netcom.com>  
> To: "milsurplus at mailman" <milsurplus at mailman.qth.net>  
> Subject: [BoatAnchors] G0-9 Project; "Which way did he go, George?"  
> Message-ID: <17254878-0843-3331-8348-7c26beffa44a at ix.netcom.com>  
> Content-Type: text/plain; charset=utf-8; format=flowed  
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>  
> TNX OM ES 73 DE Dave AB5S  
>  
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> --  
> This email has been checked for viruses by Avast antivirus software.  
> <https://www.avast.com/antivirus>  
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> -----  
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> Subject: Digest Footer  
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> BoatAnchors mailing list  
> BoatAnchors at [lists.theporch.com](mailto:lists.theporch.com)

> <https://lists.theporch.com/mailman/listinfo/boatanchors>

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> End of BoatAnchors Digest, Vol 419, Issue 1

> \*\*\*\*\*

From jerry.proc at sympatico.ca Tue Oct 29 14:48:22 2019

From: jerry.proc at sympatico.ca (Jerry Proc)

Date: Tue, 29 Oct 2019 14:48:22 -0400

Subject: [BoatAnchors] British and Canadian Lancaster Bomber Electronics Fit

Message-ID: <01f501d58e89\$7135e980\$53a1bc80\$@proc@sympatico.ca>

Hello Everyone,

The British Lancaster bomber of WWII fame is well documented on the web and information is relatively easy to find. For the Canadian built Lancasters during wartime , it is a different story. To bridge this information gap, a web page was built which contrasts the electronic fits between the two aircraft.

[http://jproc.ca/ve3fab/lancaster\\_electronics\\_fit\\_ww2.html](http://jproc.ca/ve3fab/lancaster_electronics_fit_ww2.html)

Regards,

Jerry Proc

jerry.proc at sympatico.ca

Web: [www.jproc.ca](http://www.jproc.ca)

From arc5 at ix.netcom.com Tue Oct 29 15:19:35 2019

From: arc5 at ix.netcom.com (arc5 at ix.netcom.com)

Date: Tue, 29 Oct 2019 14:19:35 -0500

Subject: [BoatAnchors] G0-9 Progress Report

Message-ID: <cp0sic40itj50hdce62qrour.1572376624658@email.lge.com>

You are much too kind, Tom.? Thank you for writing.? Compared to some of the

talented people here, I'm a shade tree at best. I feel blessed to be part of a community that helps with these efforts, both with informative discussion and with parts. Definitely a collective effort. Thank you again for your kindness.73 DE Dave AB5S----- Original message-----From: Tom Bridgers via BoatAnchorsDate: Tue, Oct 29, 2019 12:28 PMTo: boatanchors at lists.theporch.com;Cc: Tom Bridgers;Subject:[BoatAnchors] G0-9 Progress ReportCongratulations, Dave!

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> 1. G0-9 Project; "Which way did he go, George?" (David Stinson)  
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>  
> -----  
>  
> Message: 1  
> Date: Sun, 27 Oct 2019 12:18:18 -0500  
> From: David Stinson  
> To: "milsurplus at mailman"  
> Subject: [BoatAnchors] G0-9 Project; "Which way did he go, George?"  
> Message-ID: <17254878-0843-3331-8348-7c26beffa44a at ix.netcom.com>  
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> \*\*\*\*\*

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BoatAnchors mailing list  
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From w5sum at comcast.net Tue Oct 29 15:38:19 2019  
From: w5sum at comcast.net (Ronnie Hull)  
Date: Tue, 29 Oct 2019 14:38:19 -0500  
Subject: [BoatAnchors] G0-9 Progress Report  
In-Reply-To:  
<BY5PR19MB361705C4C37E674AEBD2540490610@BY5PR19MB3617.namprd19.prod.outlook.com>  
References:  
<BY5PR19MB361705C4C37E674AEBD2540490610@BY5PR19MB3617.namprd19.prod.outlook.com>  
Message-ID: <B29E7D86-C6FD-4CC1-B363-9F55983566D2@comcast.net>

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Ronnie W5SUM

Sent from my iPhone

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>> When replying, please edit your Subject line so it is more specific  
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>> Today's Topics:  
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>> 1. G0-9 Project; "Which way did he go, George?" (David Stinson)  
>>  
>>  
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>>  
>> Message: 1  
>> Date: Sun, 27 Oct 2019 12:18:18 -0500  
>> From: David Stinson <arc5 at ix.netcom.com>  
>> To: "milsurplus at mailman" <milsurplus at mailman.qth.net>  
>> Subject: [BoatAnchors] G0-9 Project; "Which way did he go, George?"  
>> Message-ID: <17254878-0843-3331-8348-7c26beffa44a at ix.netcom.com>

>> Content-Type: text/plain; charset=utf-8; format=flowed  
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From arc5 at ix.netcom.com Tue Oct 29 16:00:55 2019  
From: arc5 at ix.netcom.com (arc5 at ix.netcom.com)  
Date: Tue, 29 Oct 2019 15:00:55 -0500  
Subject: [BoatAnchors] G0-9 Progress Report  
Message-ID: <9659il6dsk96b1b8mad7tn8l.1572379205817@email.lge.com>

"Friends don't let friends buy Kenwoods..."----- Original message-----From: Ronnie Hull via BoatAnchorsDate: Tue, Oct 29, 2019 2:38 PMTo: Ham radios with tubes;Cc: Ronnie Hull;Tom Bridgers;Subject:Re: [BoatAnchors] G0-9 Progress ReportI?m Dave?s Co-worker. There is a reason his nickname is ?Brave Dave? LOL He will tackle anything! Except a kenwood anything.. he hates Kenwood LOL

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Sent from my iPhone

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>> TNX OM ES 73 DE Dave AB5S

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>> <https://www.avast.com/antivirus>

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>> Subject: Digest Footer

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>> BoatAnchors at [lists.theporch.com](mailto:lists.theporch.com)

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>> End of BoatAnchors Digest, Vol 419, Issue 1

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From: arc5 at ix.netcom.com Tue Oct 29 18:36:05 2019

From: arc5 at ix.netcom.com (arc5 at ix.netcom.com)

Date: Tue, 29 Oct 2019 17:36:05 -0500

Subject: [BoatAnchors] British and Canadian Lancaster Bomber Electronics  
Fit

Message-ID: <q639ln91t91al5gucrudhakv.1572388527611@email.lge.com>

Thanks for posting this, Jerry.? Excellent!73 Dave AB5S

From arc5 at ix.netcom.com Tue Oct 29 18:40:18 2019  
From: arc5 at ix.netcom.com (arc5 at ix.netcom.com)  
Date: Tue, 29 Oct 2019 17:40:18 -0500  
Subject: [BoatAnchors] British and Canadian Lancaster Bomber Electronics  
Fit  
Message-ID: <45dpgitvol6qhd9rgu0v3faj.1572388667086@email.lge.com>

P.S.? The power output of my TR9D, matched with a series capacitor to a 50-Ohm resistive load, was about 600 milliwatts. It padded down to 75 M pretty easily and I made a short contact on the local AM net with it, LOL.73 Dave S.

From w5sum at comcast.net Tue Oct 29 19:28:13 2019  
From: w5sum at comcast.net (w5sum at comcast.net)  
Date: Tue, 29 Oct 2019 18:28:13 -0500  
Subject: [BoatAnchors] G0-9 Progress Report  
In-Reply-To: <9659il6dsk96b1b8mad7tn8l.1572379205817@email.lge.com>  
References: <9659il6dsk96b1b8mad7tn8l.1572379205817@email.lge.com>  
Message-ID: <6090DC5051D749BB83C91C0C981D86CA@MININTMC1HLDC>

I KNEW you would say that LOL

From: arc5 at ix.netcom.com  
Sent: Tuesday, October 29, 2019 3:00 PM  
To: Ronnie Hull via BoatAnchors  
Cc: Ronnie Hull ; Tom Bridgers  
Subject: Re: [BoatAnchors] G0-9 Progress Report

"Friends don't let friends buy Kenwoods..."

----- Original message-----

From: Ronnie Hull via BoatAnchors  
Date: Tue, Oct 29, 2019 2:38 PM  
To: Ham radios with tubes;  
Cc: Ronnie Hull;Tom Bridgers;  
Subject:Re: [BoatAnchors] G0-9 Progress Report

I?m Dave?s Co-worker. There is a reason his nickname is ?Brave Dave? LOL  
He will tackle anything! Except a kenwood anything.. he hates Kenwood LOL

Ronnie W5SUM

Sent from my iPhone

> On Oct 29, 2019, at 12:28 PM, Tom Bridgers via BoatAnchors wrote:  
>  
> ?Congratulations, Dave!  
>

> You've given us a wonderful and informative story of how you diagnosed and repaired the G0-9 to the point where it could be put on the air using a low-voltage supply.

>

> Not only that, but you were able to get 15 watts of clean signal output power. And you keyed it with gridblock keing, which has to be a substantial improvement within itself.

>

> Maybe I'm just weird, but your posting reads like a Sherlock Holmes story to me. I can't wait to read the next sentence, the next paragraph and look at the next photo to see what happens...

>

> Lots of pleasure and excitement reading how you are able to take a very complex transmitter, that's been hacked up by its former owner, and you're able to restore it and make it work.

>

> Wow!

>

> Your confidence and adventurousness are inspirational.

>

> Truly you are a master electronics restorer! Well done!

> 73,

> Tom KE4RHH

>

> Sent from my iPhone

>

>> On Oct 29, 2019, at 12:00 PM, boatanchors-request at lists.theporch.com wrote:

>>

>> ?Send BoatAnchors mailing list submissions to

>> boatanchors at lists.theporch.com

>>

>> To subscribe or unsubscribe via the World Wide Web, visit

>> <https://lists.theporch.com/mailman/listinfo/boatanchors>

>> or, via email, send a message with subject or body 'help' to

>> boatanchors-request at lists.theporch.com

>>

>> You can reach the person managing the list at

>> boatanchors-owner at lists.theporch.com

>>

>> When replying, please edit your Subject line so it is more specific

>> than "Re: Contents of BoatAnchors digest..."

>>

>>

>> Today's Topics:

>>

>> 1. G0-9 Project; "Which way did he go, George?" (David Stinson)

>>

>>

>> -----  
>>  
>> Message: 1  
>> Date: Sun, 27 Oct 2019 12:18:18 -0500  
>> From: David Stinson  
>> To: "milsurplus at mailman"  
>> Subject: [BoatAnchors] G0-9 Project; "Which way did he go, George?"  
>> Message-ID: <17254878-0843-3331-8348-7c26beffa44a at ix.netcom.com>  
>> Content-Type: text/plain; charset=utf-8; format=flowed  
>>  
>> Got the decks cleared of the BC-669 and the RAK/RAL projects, so it's  
>> time to start the "Winter Hair-Puller," the G0-9 transmitter.? As we saw  
>> before, the power supply is almost completely stripped and an 813  
>> shoe-horned in where an 803 should be nesting.? The power supply and  
>> transmitter display the sad and regrettable fate that awaited 90% of  
>> "conversions:."? a lot of wire-cutting? and gutting which was not  
>> finished- the poor thing never having done another "dit" from the time  
>> it left Service until now, whereupon the "convert-er," converted a  
>> beautiful piece of engineering into a corpse on the junk pile.?? It's  
>> not all bad news; the transmitter came with the shock mounts, which is  
>> great because without them, there are things on the bottom of the  
>> transmitter that would be easy to break (not every engineering decision  
>> is a good one).? A stripped 800Hz power supply is a perfect excuse to  
>> build a 60Hz supply, so we don't have the 800Hz boogie-man to whip.??  
>> Here is a simplified schematic of the transmitter for those who wish to  
>> follow the discussion:  
>> <https://photos.app.goo.gl/Z3sLRrEWgFRpUtVaA>  
>>  
>> We'll start by surveying and trying to understand the changes made to  
>> the rig, so "Which way did he go, George?." starting with the  
>> almost-a-power-supply.? It's nearly stripped and a start made on a  
>> filament supply deck.? A large transformer supplied 10VCT for the 813.?   
>> Two small ones were each 7.5VAC, wired in series to provide 15VCT,  
>> intended for the 837 MO and 837 IA.? A bunch of big mystery resistors  
>> here and yonder.? I decided to "begin at the beginning" and removed  
>> almost all the original and "conversion" parts, leaving us a  
>> nearly-clear cabinet in which to build our supplies, controls and  
>> modulator.?? As it turns-out, our "converter" did put some thought into  
>> the changes he made to the transmitter itself, if one assumes he did not  
>> have access to an 803.? The 813 is wired in such a way as it would  
>> work.? The 813 socket is larger than the intended 803 socket, so the  
>> socket mounts had to be warped a bit to fit it.? He did power the  
>> transmitter up at some time, because the 813 is shorter than the 803,  
>> the plate lead touched a ground point and arced to ground at that  
>> point.? Insulating varnish on the wire and the ground point (just in  
>> case) addressed this. The original .01 uFd screen bypass capacitor is  
>> missing and a large mica 600 pFd capacitor mounted to a small drill  
>> hole.? No idea why on that one.??? Reference the grid circuits of the

>> three tubes. Through pin 17 of the connection between the Transmitter  
>> and Power Supply chassis, relay K201 closes the M0/IA grid circuits to  
>> ground during keying.? The original modifier lifted the grid circuit of  
>> the PA from ground at the bottom of meter M302 and connected this point  
>> to pin 17.? This allows the use of grid-block keying for the  
>> transmitter.? I may retain this, since the thought of the PA producing  
>> waste heat and running the filament-life clock, being unbiased during  
>> key-up, is unacceptable to me.  
>>  
>> The "Filament Resistor" Question.  
>> As you remember, we discussed reasons why a 4.5-Ohm dropping resistor  
>> was in the filament lead to the Intermediate Amp.? After some  
>> investigation and insights from our membership, the answer is the IR  
>> drop in the two .5 mH chokes in the filament leads of the M0.  
>> <https://photos.app.goo.gl/5dEd6kpZZ9Bg8wA19>  
>> R-312 is included to equalize the two IR drops, which is then made-up by  
>> supplying about a higher voltage to the M0/IA filament buss.? To get  
>> 12.6 V to the tube filaments at 60 Hz, one must supply about 15.5 VCT to  
>> the buss.? While 15 VCT transformers can be found surplus, one of my  
>> goals in doing this work is the hope that others will get their rigs off  
>> the garage floor where it's sat for 40 years and breath life back into  
>> it.? Really didn't like the idea of using a non-standard transformer.?   
>> There are a lot of 12VCT, 3 Amp transformers out there.? Radio Shack  
>> used to sell them by the basket and you see them at hamfest for a couple  
>> of bucks all the time.? So began looking for another solution.? Here is  
>> a photo of the M0 stage.? The two filament chokes, wound basket-weave on  
>> a wooden core, are easy to see on the right:  
>> <https://photos.app.goo.gl/gRbTQGYbwVE7zHqT6>  
>> Modern ferrite-wound chokes can deliver significant inductance without  
>> large IR losses, so I decided a non-destructive solution was to bypass  
>> these two chokes with ferrite-loaded coils and bypass R-312, allowing  
>> standard 12.6VCT supply to the M0/IA filament buss.? R312 is the center  
>> of the three clip-mounted resistors:  
>> <https://photos.app.goo.gl/YQsntABB46pMorJRA>  
>> <https://photos.app.goo.gl/GsoKN6iTZ9pqhBVQ6>  
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